

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF

THE RETRACEMENT OF

A PORTION OF THE UTAH-ARIZONA STATE BOUNDARY,

THE DEPENDENT RESURVEY OF

A PORTION OF THE SUBDIVISION OF SECTION 10,

AND

A METES AND BOUNDS SURVEY IN SECTION 10,

IN

**TOWNSHIP 44 SOUTH, RANGE 6 WEST,**

OF THE SALT LAKE MERIDIAN  
IN THE STATE OF UTAH

EXECUTED BY

***Jeremy D. Davis***  
***Cadastral Surveyor***

Under Special Instructions dated ***August 2, 2010*** approved ***August 2, 2010***,  
which provided for the surveys included under Group Number ***1142***, and  
Assignment Instructions dated ***August 2, 2010***.

Survey Commenced, ***August 2, 2010***  
Survey Completed, ***December 1, 2010***

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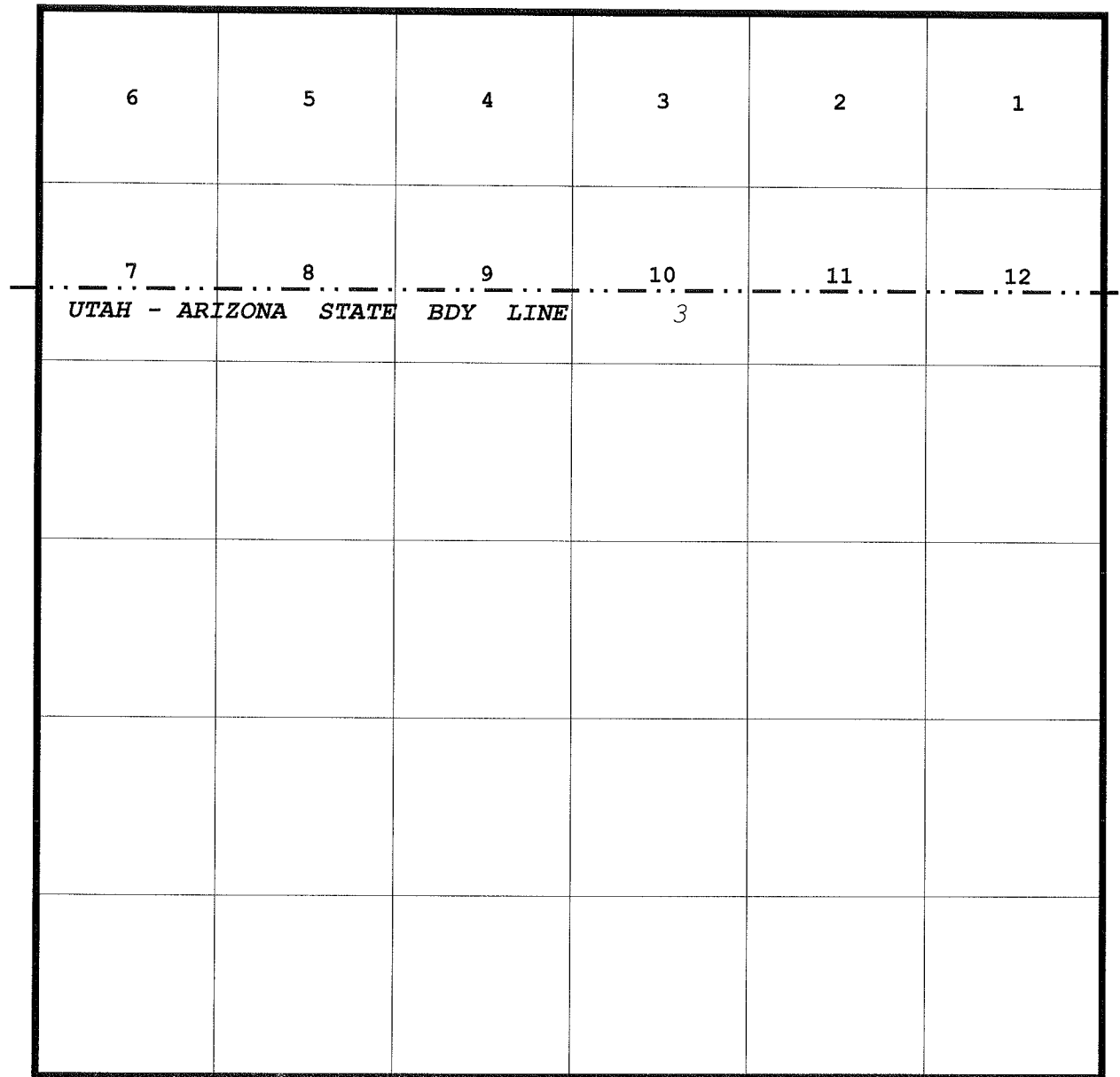
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# INDEX DIAGRAM

Township 44 South, Range 6 West.



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## T. 44 S., R. 6 W., SALT LAKE MERIDIAN, UTAH.

The following field notes are those of the retracement of a portion of the Utah - Arizona State Boundary, the dependent resurvey of a portion of the subdivision of section 10, and a metes and bounds survey in section 10, in T. 44 S., R. 6 W., Salt Lake Meridian, Utah.

**HISTORY OF SURVEYS**

<b>Surveyed by</b>		<b>Retr. or Resurveyed by</b>	
<b>SOUTH BOUNDARY</b>			
All	H.B. Carpenter	1901	
All		R. Gentry	1912
Portion		L.V. Judd	2003
<b>EAST BOUNDARY</b>			
All	J.G. Burrill & Etal.	1877	
Portion		R. Gentry	1912
<b>WEST BOUNDARY</b>			
All	J.G. Burrill & Etal.	1877	
All		S.P. Stewart & F.C. French	1909
Portion		R. Gentry	1912
<b>NORTH BOUNDARY</b>			
All	J.G. Burrill	1877	
Portion		S.P. Stewart & F.C. French	1909
Portion		J.C. Thomas & J.C. Clark	1914-15
Portion		R.A. Zaninovich	1984
<b>SUBDIVISION</b>			
All	J.G. Burrill	1877	
Portion		R. Gentry	1912
Portion		L.V. Judd	2003

**NOTE:** The legal description for the metes and bounds survey in section 10 was determined by utilizing the R&PP lease approved February 2, 2010, with serial number UTU 87673.

## T. 44 S., R. 6 W., SALT LAKE MERIDIAN, UTAH.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 1142 dated August 2, 2010.

The directions of the lines were determined by references to true meridians, established by Global Positioning System (GPS) utilizing Real-Time Kinematic (RTK) techniques throughout the survey. The positional accuracy of this survey complies with the *Standards and Guidelines for Cadastral Surveys Using Global Positioning System Methods*, dated May 9, 2001, Version 1.0. Trimble model 5800 GPS receivers were used for field collection. Cadastral Measurement Management (CMM) software was the primary software utilized for project calculations.

Preliminary to the resurvey, the lines of the prior surveys were retraced and a search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data was thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from National Geodetic Survey Station "A 57" with published data as follows:

Latitude: **37°00'11.20779" N.**,  
Longitude: **112°31'44.95162" W.**, N.A.D. 83,  
Network Accuracy = 0.200 meter at 95% confidence level

The geographic position of Mile Post 85 on the Utah and Arizona State Boundary Line, as determined by a tie to National Geodetic Survey Station "A 57" is as follows:

Latitude: **37°00'02.938" N.**,  
Longitude: **112°30'26.515" W.**, N.A.D. 83,  
Network Accuracy = 0.200 meter at 95% confidence level

The geographic position of the 1/4 section corner of sections 3 and 10 as determined by a tie to National Geodetic Survey Station "A 57" is as follows:

Latitude: **37°00'27.573" N.**,  
Longitude: **112°30'41.556" W.**, N.A.D. 83,  
Network Accuracy = 0.200 meter at 95% confidence level

THE RETRACEMENT OF A PORTION OF THE  
UTAH-ARIZONA STATE BOUNDARY,  
CHAINS T. 44 S., R. 6 W., SALT LAKE MERIDIAN, UTAH.

The Retracement of a Portion of the  
Utah-Arizona State Boundary,  
T. 44 S., R. 6 W., Salt Lake Meridian, Utah.

Reestablishment of the Survey Executed by H.B. Carpenter in 1901,  
the Retracement by R. Gentry in 1912 and the Resurvey by L. Judd in  
2003.

Beginning at the closing corner of the N-S centerline of section 10, on the Utah - Arizona State Boundary, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 6 inches above ground with aluminum cap marked as described in the official record of the resurvey executed by L. Judd in 2003.

**N. 89°51.0' E.**, along the Utah - Arizona State Boundary.

**7.271** Point for Angle Point 3 of the Metes and Bounds Survey.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, in a mound of stone 2 ft. base, to top, with aluminum cap marked:

AP 3  
|  
└─ S10  
2010

Deposit a magnet enclosed in a plastic case at the base of the aluminum post.

Set a steel fence post alongside the aluminum post.

Corner falls on the south edge of a dirt road extending east and west, and 4 ft. north of a fence line extending east and west.

**18.366** Mile Post 85, monumented with a stainless steel post, 2 1/2 inches diameter, firmly set in a mound of stone 3 ft. base, to top, with brass cap marked as described in the official record of the resurvey executed in 2003.

This corner will also function as Angle Point 4 of the Metes and Bond survey.

Found two steel fence posts alongside the stainless steel post.

Corner falls on the south edge of a dirt road extending east and west.

**N. 89°58.2' E.**, continuing on the Utah - Arizona State Boundary.

THE RETRACEMENT OF A PORTION OF THE  
UTAH-ARIZONA STATE BOUNDARY,  
CHAINS T. 44 S., R. 6 W., SALT LAKE MERIDIAN, UTAH.

- 1.480** The closing corner of the N-S centerline of the NE 1/4, of section 10, monumented with an aluminum post, 2 1/2 inches diameter, firmly set flush with the ground surface, with an aluminum cap marked as described in the official record of the resurvey executed in 2003.

This corner will also function as Angle Point 5 of the Metes and Bond survey.

Found a steel fence post alongside the aluminum post.

Corner falls on the south edge of a dirt road extending east and west, and 4 ft. north of a fence line extending east and west.

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Dependent Resurvey of a portion of the Subdivision of Section 10,  
T. 44 S., R. 6 W., Salt Lake Meridian, Utah.

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Surveyed by L. Judd in 2003.

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From the 1/4 section corner of sections 3 and 10, monumented with an aluminum pipe, 2 inches diameter, firmly set, projecting 3 inches above ground, with a 2 1/2 inches diameter aluminum cap marked:

TALBOT LAND SURVEYORS  
T44SR6W  
S3  
1/4 —  
S10  
RLS 165634  
1996

This is accepted as a careful and faithful determination of the original 1/4 section corner position.

Found a mound of stone 3 ft. by 2 ft. base by 1 ft. high, north of the aluminum post.

Corner falls in a fence extending east and west, on flat ground.

From which:

The National Geodetic Survey Control Station "A 57", monumented with a standard survey disk set in solid sandstone, stamped A 57 1934, bears S.72°09.8'W., forward bearing and N.72°09.6'E., back bearing, 81.872 chains distance.

**S. 0°11.5' E.**, on the N - S centerline of section 10.

- 19.966** Point for the center N 1/16 section corner of section 10, not monumented.

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISION OF SECTION 10,  
T. 44 S., R. 6 W., SALT LAKE MERIDIAN, UTAH.

CHAINS

- 37.807** The closing corner at the intersection with the Utah - Arizona State Boundary, hereinbefore described.

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From the closing corner of the N - S centerline of the NE 1/4, of section 10, on the Utah - Arizona State boundary, identical with AP 5 of the Metes and Bounds survey, hereinbefore described.

**N. 0° 02.2' W.**, on the N - S centerline of the NE 1/4 of section 10.

- 14.773** Point for Angle Point 1 of the Metes and Bounds survey.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 22 inches in the ground, in a mound of stone 2 ft. base, to top, with aluminum cap marked:

AP 1  
┌  
S10 |  
└  
2010

Deposit a magnet enclosed in a plastic case at the base of the aluminum post.

Set a steel fence post alongside the aluminum post.

Corner falls in a new grade line extending north and south.

- 17.745** The NE 1/16 section corner of section 10, monumented with an aluminum post, 2 1/2 inches diameter, firmly set, projecting 3 inches above the ground, with aluminum cap marked as described in the official record of the resurvey executed in 2003.

Found a steel fence post alongside the aluminum post.

Corner falls on flat ground in a new grade line extending north and south.

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**N. 89°51.9' W.**, on the E - W centerline of the NE 1/4 of section 10.

- 19.892** The point for the center N 1/16 section corner of section 10.

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The Metes and Bounds Survey in Section 10  
T. 44 S., R. 6 W., Salt Lake Meridian, Utah.

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From Angle Point No. 1, on the N - S centerline of the NE 1/4 of section 10.



THE METES AND BOUNDS SURVEY OF SECTION 10,  
T. 44 S., R. 6 W., SALT LAKE MERIDIAN, UTAH.

CHAINS

**S. 89°50.7' W.**, on line 1 - 2.

- 12.576** Point for Angle Point No. 2, determined by distance-distance intersection from Angle Point No. 1 and Angle Point No. 3.

Set an aluminum post, 30 inches long, 2 1/2 inches diameter, 24 inches in the ground, in a mound of stone 2 ft. base, to top, with aluminum cap marked:

AP 2

┌ S10

2010

Deposit a magnet enclosed in a plastic case at the base of the aluminum post.

Set a large truck tire around the mound of stone and aluminum post.

Corner falls in a wash that is dammed by a road leading into the Kanab rodeo grounds.

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**S. 0°02.4' E.**, on line 2 - 3.

- 14.769** Angle Point No. 3, at intersection with the Utah - Arizona State Boundary, hereinbefore described.

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**N. 89° 51.0' E.**, on line 3 - 4, identical with a portion of the Utah - Arizona State Boundary.

- 11.095** Angle Point No. 4, identical with Mile Post 85, hereinbefore described.

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**N. 89° 58.2' E.**, on line 4 - 5, identical with a portion of the Utah - Arizona State Boundary.

- 1.480** Angle Point No. 5, identical with the closing corner of the N - S centerline of the NE 1/4 of section 10, hereinbefore described.

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**N. 0° 02.2' W.**, on line 5 - 1, identical with a portion of the N - S centerline of the NE 1/4 of section 10.

- 14.773** Angle Point No. 1, and point of beginning.

UNITED STATES  
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**FIELD ASSISTANTS**

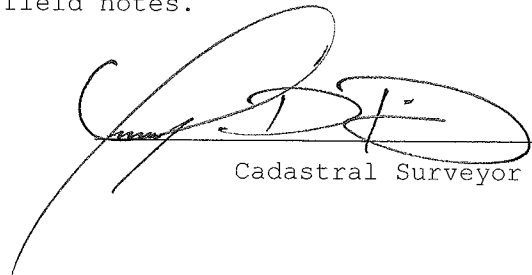
Name	Capacity
Vincent Porter	Survey Aid

## CERTIFICATE OF SURVEY

I, *Jeremy D. Davis, Cadastral Surveyor*, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the *August 2, 2010*, I have *retraced a portion of the Utah - Arizona State boundary, dependently resurveyed a portion of the subdivision of section 10, and surveyed a metes and bounds survey in section 10, in Township 44 South, Range 6 West*, of the *Salt Lake Meridian*, in the State of *Utah*, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

*December 9, 2010*

Date

  
Cadastral Surveyor

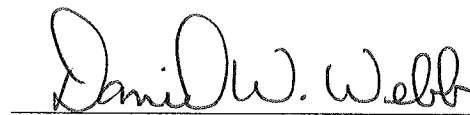
## CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Salt Lake City, Utah

The foregoing field notes of the retracement of *a portion of the Utah - Arizona State boundary, the dependent resurvey of a portion of the subdivision of section 10, and a metes and bounds survey in section 10, in Township 44 South, Range 6 West, Salt Lake Meridian, Utah*, executed by *Jeremy D. Davis, Cadastral Surveyor*, having been critically examined and found correct, are hereby approved.

*December 14, 2010*

Date

  
Chief Cadastral Surveyor for Utah